

May 29, 2019



U.S. Department  
of Transportation

East Building, PHH-30  
1200 New Jersey Avenue S.E.  
Washington, D.C. 20590

**Pipeline and Hazardous  
Materials Safety Administration**

DOT-SP 20370  
(FIRST REVISION)

**EXPIRATION DATE: 2023-04-30**

(FOR RENEWAL, SEE 49 CFR § 107.109)

1. GRANTEE: American Honda Motor Co., Inc.  
Torrance, CA
2. PURPOSE AND LIMITATION:
  - a. This special permit authorizes the transportation in commerce of gaseous hydrogen, compressed in non-DOT specification composite overwrapped pressure vessels (COPVs) with maximum charged pressure less than 5% of the COPV designed service pressure during transportation in commerce. The COPVs are used as replacement parts for hydrogen fuel tanks installed in motor vehicles. This special permit provides no relief from the Hazardous Materials Regulations (HMR) other than as specifically stated herein. The most recent revision supersedes all previous revisions.
  - b. The safety analyses performed in the development of this special permit only considered the hazards and risks associated with the transportation in commerce.
  - c. No party status will be granted to this special permit.
3. REGULATORY SYSTEM AFFECTED: 49 CFR Parts 106, 107 and 171-180.
4. REGULATIONS FROM WHICH EXEMPTED: 49 CFR § 173.301(a)(1) in that alternative packaging is authorized for transportation of gaseous hydrogen.
5. BASIS: This special permit is based on the application of American Honda Motor Co., Inc. dated May 20, 2019, submitted in accordance with § 107.109.

Tracking Number: 2019054823

6. HAZARDOUS MATERIALS (49 CFR 172.101):

Hazardous Materials Description			
Proper Shipping Name	Hazard Class/ Division	Identi- fication Number	Packing Group
Hydrogen, compressed	2.1	UN1049	N/A

7. SAFETY CONTROL MEASURES:

- a. PACKAGING: Prescribed packaging are non-DOT specification composite overwrapped pressure vessels (COPVs) with aluminum liner wrapped with carbon fiber and epoxy resin, followed by glass fiber overwrap. These COPVs must be designed and tested in accordance with American Honda Motor Co., Inc. (AHM) specification 17501-TRT-A01, 17502-TRT-A01 and additional information submitted by AHM on file with the Office of Hazardous Materials Safety Approvals and Permits Division (OHMSAPD).

b. OPERATIONAL CONTROLS:

- (1) For each COPV shipped under the terms of this special permit, maximum internal pressure is limited to 5% of the design working pressure, which is 3.3% of design test pressure ( $p_h$ ) of the COPV.
- (2) The COPVs shipped under this special permit must be in rigid outer packagings (as described in American Honda Motor's application on file with OHMSAPD) with UN Specification Packing Group II Performance Level, with appropriate inner packaging to prevent tank movement, and protective inserts for the tank valve. The outside of each outer packaging must be clearly marked "DOT-SP 20370".
- (3) Transportation of these COPVs is limited to/from Honda Parts centers (on file with OHMSAPD) and authorized Honda dealerships where the COPVs will be permanently installed in motor vehicles.

c. TESTING: Since these COPVs are shipped to be permanently installed in the vehicle as part of the Fuel Cell hydrogen storage tank, periodic inspection and testing (requalification in accordance with Part 180) is not required under this special permit.

8. SPECIAL PROVISIONS:

a. A person who is not a holder of this special permit who receives a package covered by this special permit may reoffer it for transportation provided no modification or change is made to the package or its contents and it is reoffered for transportation in conformance with this special permit and the HMR.

b. A current copy of this special permit must be maintained at each facility where the package offered or reoffered for transportation.

9. MODES OF TRANSPORTATION AUTHORIZED: Motor vehicle, rail freight, cargo vessel, cargo aircraft.

10. MODAL REQUIREMENTS: A current copy of this special permit must be carried aboard each cargo vessel, aircraft, or motor vehicle used to transport packages covered by this special permit. The shipper must furnish a copy of this special permit to the air carrier before or at the time, the shipment is tendered.

11. COMPLIANCE: Failure by a person to comply with any of the following may result in suspension or revocation of this special permit and penalties prescribed by the Federal hazardous materials transportation law, 49 U.S.C. 5101 et seq:

- o All terms and conditions prescribed in this special permit and the Hazardous Materials Regulations, 49 CFR Parts 171-180.
- o Persons operating under the terms of this special permit must comply with the security plan requirement in Subpart I of Part 172 of the HMR, when applicable.
- o Registration required by § 107.601 et seq., when applicable.

Each "Hazmat employee", as defined in § 171.8, who performs

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a function subject to this special permit must receive training on the requirements and conditions of this special permit in addition to the training required by §§ 172.700 through 172.704.

No person may use or apply this special permit, including display of its number, when this special permit has expired or is otherwise no longer in effect.

Under Title VII of the Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users (SAFETEA-LU) – “The Hazardous Materials Safety and Security Reauthorization Act of 2005” (Pub. L. 109-59), 119 Stat. 1144 (August 10, 2005), amended the Federal hazardous materials transportation law by changing the term “exemption” to “special permit” and authorizes a special permit to be granted up to two years for new special permits and up to four years for renewals.

12. REPORTING REQUIREMENTS: Shipments or operations conducted under this special permit are subject to the Hazardous Materials Incident Reporting requirements specified in 49 CFR §§ 171.15 - Immediate notice of certain hazardous materials incidents, and 171.16 - Detailed hazardous materials incident reports. In addition, the grantee(s) of this special permit must notify the Associate Administrator for Hazardous Materials Safety, in writing, of any incident involving a package, shipment or operation conducted under terms of this special permit.

Issued in Washington, D.C.:



for William Schoonover  
Associate Administrator for Hazardous Materials Safety

Address all inquiries to: Associate Administrator for Hazardous Materials Safety, Pipeline and Hazardous Material Safety Administration, U.S. Department of Transportation, East Building PHH-30, 1200 New Jersey Avenue, Southeast, Washington, D.C. 20590.

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Copies of this special permit may be obtained by accessing the Hazardous Materials Safety Homepage at [http://hazmat.dot.gov/sp\\_app/special\\_permits/spec\\_perm\\_index.htm](http://hazmat.dot.gov/sp_app/special_permits/spec_perm_index.htm). Photo reproductions and legible reductions of this special permit are permitted. Any alteration of this special permit is prohibited.

PO: MT/TG